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Department of  
Food Science  
and Technology

Oregon  
State  
University

Corvallis, Oregon 97331 (503) 754-3131

April 16, 1976

Nortell Laboratories, Inc.  
P. O. Box 856  
Corvallis, Oregon 97330

Gentlemen:

We recently completed an exposure test of rainbow trout (Salmo gairdneri) to three concentrations of Agrobacterium radiobacter. Dr. Paul Krumpnerman asked me to examine the fish after exposure and report the results to you.

The following table gives the experimental design used:

Bucket #	# of Fish	<u>Agrobacterium radiobacter</u> (conc.)
1	20	$5.4 \times 10^6$
2	20	$7.3 \times 10^5$
3	20	$9.7 \times 10^4$

The fish were exposed for four days under fasted, constant temperature (12°C), and static water conditions. After exposure the fish were removed from the bacterial suspensions and returned to individual flowing water tanks. They were observed for an additional five days before the experiment was terminated.

All the fish in each group appeared completely normal throughout the experiment. At termination, five fish from each tank were given complete post-mortem autopsies. All organs were normal as viewed under the binocular dissecting microscope. Particular attention was given to the gills and epidermis but no lesions of any type were seen.

On the basis of my observations of the live fish during the experiment and the autopsied fish at termination, Agrobacterium radiobacter appears to be innocuous to rainbow trout under our experimental conditions.

Sincerely,

*Jerry D. Hendricks*  
Jerry D. Hendricks Ph.D.  
Fish Pathologist  
Dept. Food Science & Technology

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JDH:pp  
cc: Dr. Paul H. Krumpnerman  
Professor R. O. Sinnhuber

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Department of  
Food Science  
and Technology

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Corvallis, Oregon 97331 (503) 754-3131

April 28, 1976

Nortell Laboratories, Inc.  
P. O. Box 856  
Corvallis, Oregon 97330

Gentlemen:

In my recent report to you concerning the exposure of rainbow trout (Salmo gairdneri) to Agrobacterium radiobacter, I neglected to state the size of the fish used. The trout were fingerlings, approximately three grams in size, and were hatched from our Mt. Shasta strain in December 1975.

Sincerely,

*Jerry D. Hendricks*  
Jerry D. Hendricks  
Fish Pathologist  
Dept. Food Science & Technology

JDH:pp

cc: Dr. Paul H. Krumpferman  
Professor R. O. Sinnhuber

